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Abstract

The present invention relates to a method ~~a method~~ for continuous preparation of a well dispersed spherical hydrous zirconia particles with an average diameter (d_p) of 1~ 1,000 nm in the form of sol solution, which method comprises continuously supplying the aqueous solution of a zirconium salt at a concentration of 0.001~ 0.5 mole/l to a reactor consisting of one or more than two reaction tubes at a temperature of less than 25 °C, heating the said aqueous solution in the reactor(s) in a continuous flow state up to the boiling point, and then discharging the said solution through the outlet of the said reactor(s). ~~Contrary to the method employing a conventional batch-type reactor or semi-continuous stirred-type reactor, the method for continuous preparation of a hydrous zirconia sol according to the present invention can allow various operational parameters to be controlled in a certain range and thus contributes to remarkably improve the quality of a hydrous zirconia sol to be prepared or of the zirconia powder obtainable as a final product.~~